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(71) Applicant (for all designated States except US): **B.G. POLYMERS** [IL/IL]; Kibbutz Bet Govrin, 79370 (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BAREKET, Yifat** [IL/IL]; 38 Tzivoni Street, P.O.B 1625, 71908 Reut (IL).

(74) Agent: **REINHOLD COHN AND PARTNERS**; P.O.B. 4060, 61040 Tel Aviv (IL).

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(54) Title: BROMINATED POLYMERS, AND FIRE RETARDANT ARTICLES COMPRISING THEM

(57) **Abstract:** The present invention provides a polymer, an aqueous suspension of a polymer, methods for obtaining them, and fire-retardant products comprising a polymer and antimony oxide. The polymer of the invention is made of (i) at least one non-brominated monomer and (ii) at least one brominated monomer having the structure A-B-C, wherein A is a phenyl, substituted with 3-5 bromine atoms, B is a C1 to C4 alkyl, optionally substituted with 1 to 8 bromine atoms, and C is an acrylic or methacrylic group. An example of a suitable brominated monomer is penta bromo methyl acrylate. Preferable polymers have at least 20%w/w bromine. Preferable aqueous suspensions have at least 40% solid content. Fire-retardant products according to the invention comprise a polymer made of at least one bromine-containing monomer and at least one non-brominated monomer. Preferable fire-retardant products include polymers according to the invention.